

PG Products

NOVEMBER • DECEMBER • 1950

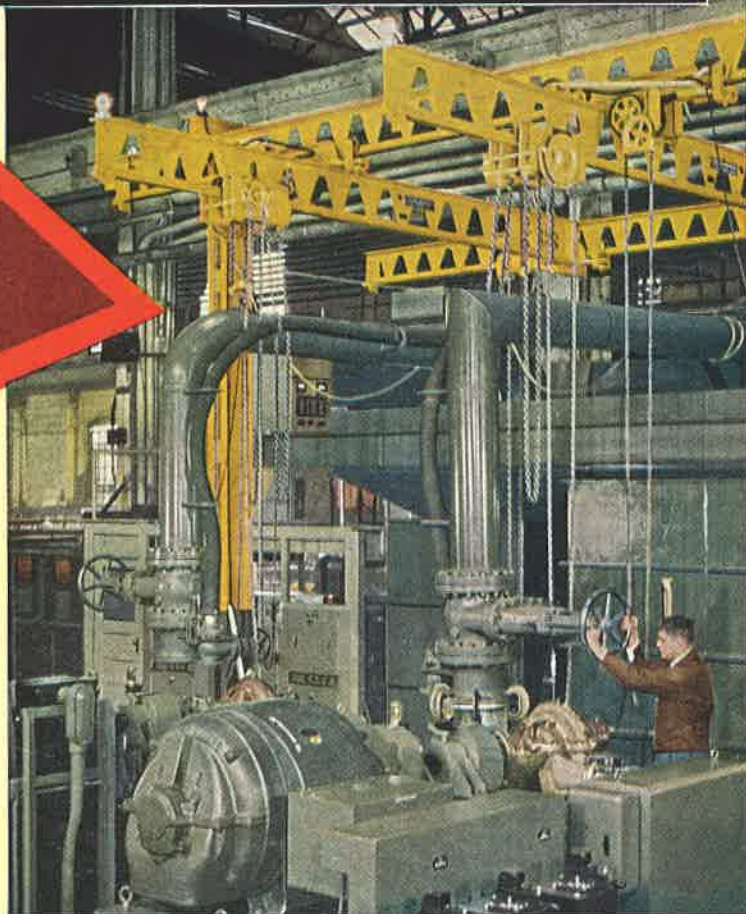


BEAUTY INDOORS
with
COLOR DYNAMICS

Pittsburgh COLOR DYNAMICS

is used by
Allis-Chalmers
to make Pump-Testing
More Efficient!

One of the world's largest makers of agricultural, industrial and electrical power machinery scientifically utilizes energy in color to make working conditions safer and more pleasant.



THE many ways in which workers and management alike benefit by the use of Pittsburgh COLOR DYNAMICS are again demonstrated in the pump test department of the Allis-Chalmers Manufacturing Company, of Milwaukee, Wis. This organization is one of the world's greatest producers of agricultural, industrial and electrical power machinery.

● The pump test floor makes use of the most modern and accurate equipment and methods in order to eliminate the possibility of human error. Because this scientific system of painting reduces eye fatigue, production executives of this company believe that COLOR DYNAMICS has contributed substantially to the improvement of efficiency and morale in this important phase of their operations.

● Allis-Chalmers' satisfactory experiences with COLOR DYNAMICS are

better summarized in this comment by Carl E. Meyer, manager of the Department of Buildings and Properties.

● "Our pump test floor is just one example of how Allis-Chalmers is making use of the *energy in color* in various of its plant areas to help promote greater efficiency as well as to make working conditions better and safer. With *focal* and *eye-rest* colors on walls we believe that we have lessened eye strain for employees who are almost continuously engaged in reading automatic recording instruments. We have also used *morale-building* colors in various areas to provide more attractive surroundings that improve the worker's attitude toward his task.

● "We have taken pains to mark accurately all control and hazard areas in order to lessen the danger of accidents. We have also used a distinctive set of color markings on containers

that hold hazardous materials as well as pipe-markings to distinguish carriers of various kinds of liquids.

● "As a result of this painting, our workers take much greater pride in their surroundings. They keep their working areas cleaner thus simplifying housekeeping problems."

● Why not try COLOR DYNAMICS in your plant—on a machine or two, or in one department—and see the difference it makes?

● For a complete explanation of Pittsburgh COLOR DYNAMICS, write for a FREE copy of our booklet explaining this painting system. Or better still, ask us to make a scientific color engineering study—free.

Pittsburgh Plate Glass Co., Paint Div., Department PPG-110, Pittsburgh 22, Pa.

☐ Please send me a FREE copy of your booklet "Color Dynamics In Industry."

☐ Please have your representative call for a Color Dynamics Survey of our properties without obligation on our part.



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PITTSBURGH PAINTS

PAINTS • GLASS • CHEMICALS • BRUSHES • PLASTICS

PITTSBURGH PLATE GLASS COMPANY

ON THE COVER

Color Dynamics, the scientific system of using correct colors when painting, is finding wide use in modern homes as well as industrial plants. Our cover this issue portrays the cheerful looking interior of a room painted according to the principles of Color Dynamics. Notice the sparkle and the way that objects in the room stand out when viewed against walls painted according to the principles of Color Dynamics.

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GLASS IN THE MODERN BANK

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METAL FURNITURE MANUFACTURER

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GLASS IN THE MODERN FACTORY

Page 16 . . . Built in an ultra-modern manner, located in a city-suburban area, here is the latest in new one story factories.

PICTURE CREDITS: 4,5,6,7—Donald L. Borger 8—Top, Clarence C. White; bottom, Grand Rapids Branch 9—Center, Clarence C. White; rest, Grand Rapids Branch 10—Cortlandt V. D. Hubbard 11—Left, Armco Steel; rest, Cortlandt V. D. Hubbard 12—Donald L. Borger 13—Top, General Fireproofing Company; rest, Donald L. Borger 14—Donald L. Borger 15—General Fireproofing Company 16—Top, Skyphotos; bottom, Donald L. Borger 17—Donald L. Borger 18—Top right, Yale & Towne Manufacturing Company; rest, Donald L. Borger 19—Top, Donald L. Borger; bottom, Yale & Towne Manufacturing Company 20—Donald L. Borger 21—Autocar Back Cover—Gallaghers Studio.

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PECK NAMED GENERAL MANAGER OF PPG'S BRUSH DIVISION

Elbert D. Peck, General Paint Manager, has been appointed General Manager of the Brush Division, and James H. Heroy, Jr., has been named Assistant General Manager of the Brush Division. These changes, which were announced recently by President H. B. Higgins, became effective on October 4. For Mr. Peck, the appointment involves no change in his duties as General Paint Manager and head of Trade Sales

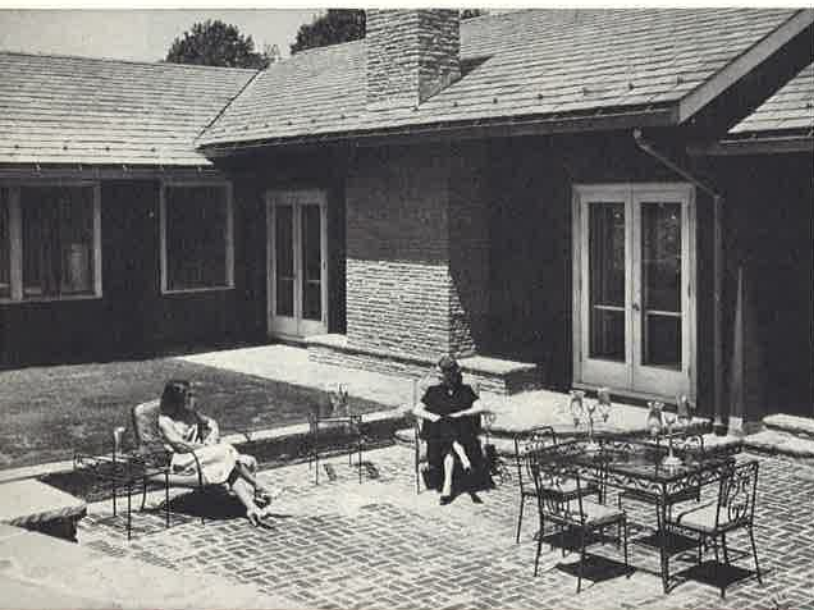


Paint Department. Changes were the result of the death of James H. Heroy, Sr., which occurred recently. Mr. Heroy, Sr., spent 48 years of distinguished service with PPG.

A view of the north elevation of the Fred Correale residence located in Conyngham Valley near Hazleton, Pa. Throughout the entire house all the windows are glazed with PPG Twindow Units. Foundation is of rough faced quarried stone and sidings are natural colored redwood.

DREAM HOUSE in the valley

"Long Shadows," the recently completed Fred Correale residence in Conyngham Valley near Hazleton, Pa., had been planned for many years



A BEAUTIFUL painting, an immortal poem, or an exceptionally fine piece of sculpture is not created over night. By the same token the dream house of the Fred Corrales has been slowly taking shape in their minds throughout the years. Visits to home shows, to hardware displays, looking at hundreds of floor plans, all were part of the effort to find the one item that would fit into their idea of a dream house.

Finally plans had crystallized to the point where they were able to call in Architect Edward T. Wassell of Wilkes-Barre, Pa. to put their ideas into definite form. It was late in 1949 that General Contractor Rex J. Martine of Hazleton, Pa. finally broke ground for "Long Shadows."

Located on the side of a mountain, "Long Shadows" overlooks the picturesque and colorful Conyngham Valley. From this vantage point the view of the valley, which gradually slopes up into the Pocono foothills, is unsurpassed. Entrance to the estate is made by a private road cut through the woods.

4 Entrance to house is made from motor court down a short flight of stairs into the patio area. Patio floor is red brick laid in a basket weave pattern. Main entrance to house is seen at the extreme right while the other two doors enter directly into the large spacious living room.



The living room of "Long Shadows" looking north through three large Twindow Units. Double lined drapes run on an overhead track and are operated by a small electric motor. In picture are Mr. and Mrs. Fred Correale.



Looking east through Twindows in the dining room. As in the living room, lighting is of the indirect cove variety. Mr. and Mrs. Correale who own "Long Shadows" are seen standing in front of the long copper flower box.

Home is built in the form of three connected rectangles with the long one containing the living room which overlooks the valley. "Long Shadow" is a one story ranch type house with two bedrooms in the west wing and the dining room, kitchen and service area in the east wing. Entrance to the house from the motor court is made down a short flight of stairs into a courtyard or patio area between the two wings of the house.

The patio area is slightly lower than the entrance to the house and is paved with red brick set in a basket weave pattern. In the patio area is a group of wrought iron chairs and tables. Toward the rear of the patio away from the house are several flower beds in which grow colorful perennials. In the north east corner of the patio is a large barbeque pit connected to one of the house chimneys.

Foundation of the house is of rough faced quarried stone with natural colored redwood sidings. The roof of the house is graduated green Vermont slate laid in a random pattern. Retaining walls around the patio are of the same rough faced quarried stone. In front of the living room is a large porch with the same kind of stone walls as the rest of the house. The floor of this porch is paved with large flagstones.

Continued on next page



The master bedroom is located in the north west part of the bedroom wing. Air, after being heated by an anthracite stoker fired furnace, is electrically cleaned and humidified and continually circulated throughout house.

→
This photograph was taken looking east from the guest bedroom out onto the patio area. At the opposite side is the kitchen wing and in the corner can be seen the barbeque pit at chimney base.

5





A view of the kitchen looking to the east. All the window sills as well as the walls are covered with PPG Structural Carrara Glass. Girl by automatic dishwasher is Mrs. Friant, daughter of W. C. Clark, PPG Wilkes-Barre Mgr.



A view of the kitchen looking to the west. The top of the bar is covered with Carrara and the floor is covered with rubber tile. Furniture in the patio is wrought iron and tables are topped with PPG clear polished plate glass.

Dream House in the valley continued from page 5



One of the many small things that have been combined to make "Long Shadows" such an unusual house is the hardware on the doors. The hardware, one of the results of visiting the hardware show, is brass with a round circular plate set between the knob and the door. The assembly is placed not at one side of the door, as is usual, but near the middle of the door.

One of the interesting features seen on entering the house is the large Twindow Unit at the end of the vestibule. This is a floor to ceiling Twindow and presents the visitor with a beautiful view looking out over the adjacent golf course. The floor of the entrance foyer is black terrazzo with bronze dividing strips. All of the other floors in the house are hardwood with the exception of the kitchen and service room which are paved with rubber tile.

To the left of the entrance foyer is the large living room. The entire north elevation of this room, which looks out onto the golf course, has been glazed with large Twindow Units. In the center of the north wall is a large picture Twindow flanked on both sides by smaller Twindow Units. Throughout the entire house all of the glazing has been done with PPG Twindow Units.

The walls of the living room, as all other interior walls except the baths and kitchen, are painted. The ceiling of the room is painted white to better reflect the light coming from the indirect cove fluorescent lighting system. A long double lined set of drapes cover the Twindow Units on the north side of the house. These drapes run on an overhead track and are operated electrically.

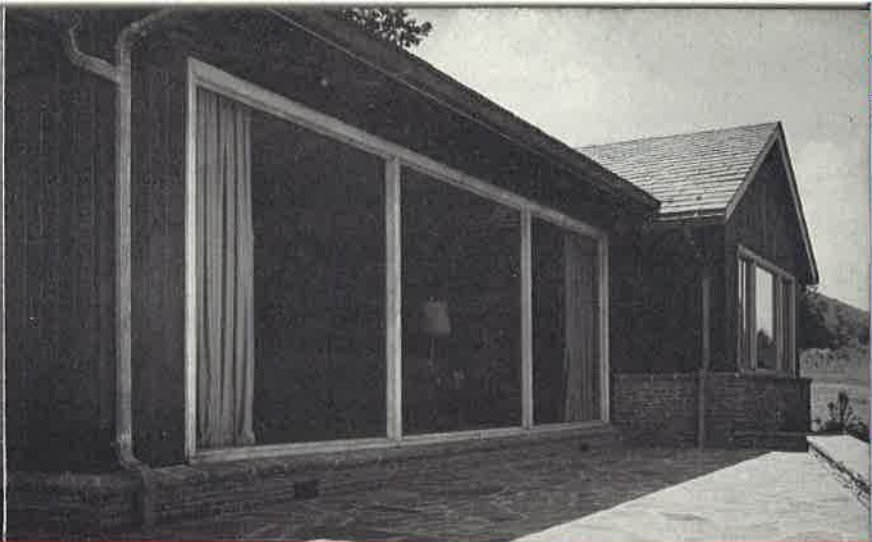
The two bedrooms are located in the west wing of the house. The master bedroom is in the north west corner of the wing. Between the master bedroom and its connecting bath is an alcove dressing room and storage closets. At the end of this alcove is a floor to ceiling PPG plate glass mirror which makes the area seem much larger.

In the southern half of the bedroom wing is the guest

6 Each of the bedrooms has its own connecting bath and in addition there is a powder room opening off from the foyer. All of the baths and the powder room are lined with Carrara Structural Glass. Showers have glass doors.



A view of the powder room which opens off from the foyer. On three sides room is covered with dark green Carrara and fourth wall is covered with black and green colored flower print wallpaper. Lighting is fluorescent.



A photograph taken from the eastern edge of the front porch. The floor of the porch is covered with large flagstones set in an irregular pattern. Retaining wall at the edge of the porch is not high enough to obstruct view.

room complete with an adjoining private bathroom. This bath like the master bedroom bath and the powder room is lined with Carrara Structural Glass from the floor to the ceiling. As a matter of fact even the ceiling is covered with Carrara. The bathroom contains a combination tub and shower completely enclosed with glass doors.

In general "Long Shadows" has been built to follow the natural contours of the land. As a consequence the dining room and kitchen wing are on a lower level than the rest of the house. Like the living room, the dining room is lighted also by indirect cove lighting and both of the large windows are glazed with Twindow Units. Along eastern Twindow Unit there is recessed space in which there is a long flower box. Flowers will be planted in pots (so they can be removed easily at any time), and placed in the flower box.

The kitchen is connected to the dining room by a short passageway. All of the kitchen window sills and the walls are covered with Carrara Structural Glass. At the western end of the kitchen area is a small Carrara covered bar

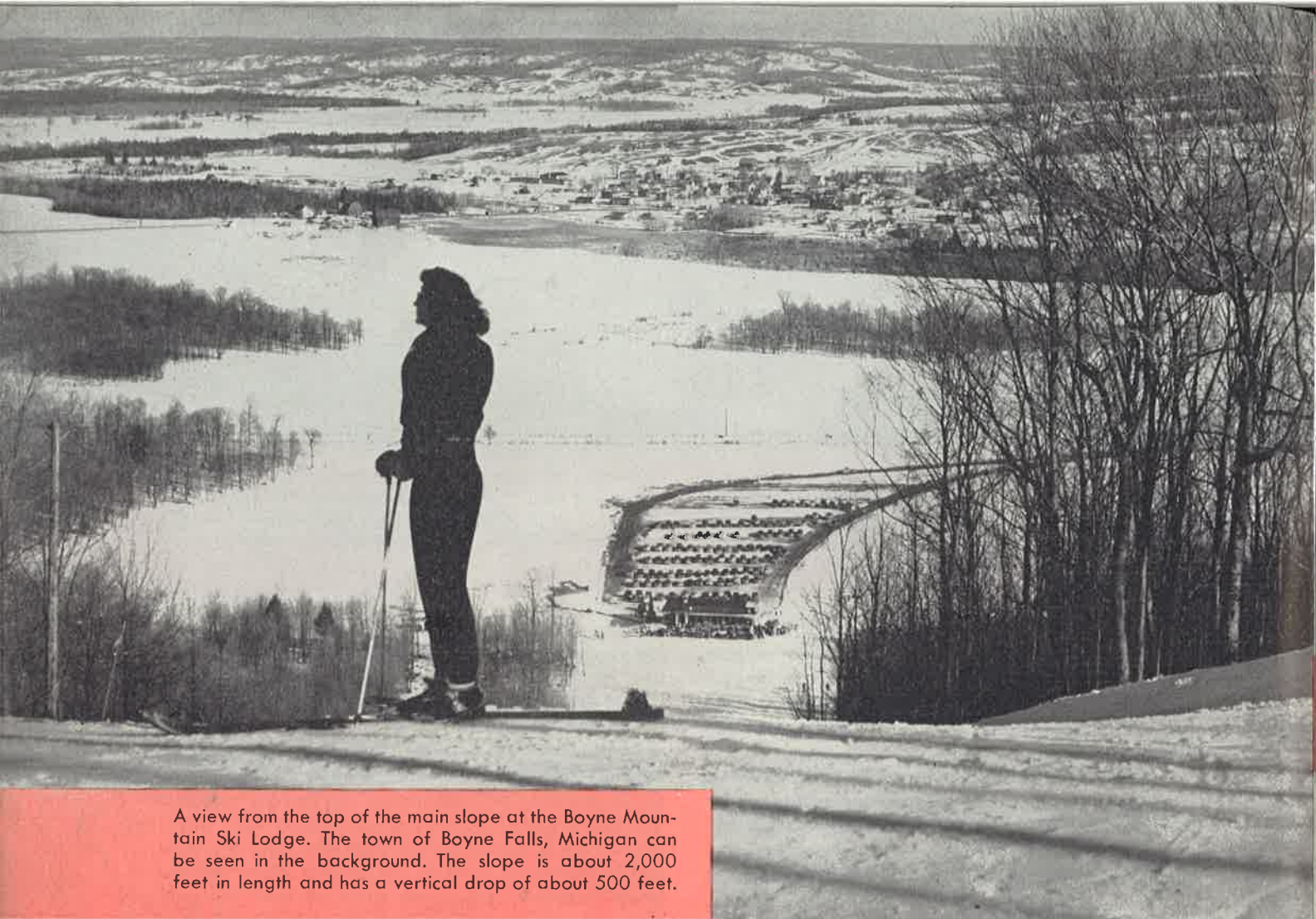
with room for three stools. Over the sink and dish washing machine is a large Twindow Unit that looks out over the golf course. At the opposite end of the room behind the bar is another large Twindow Unit that looks out onto the patio area.

Further back in the kitchen wing is the utility room. Here are the various appliances such as a home freezer, an automatic ironer, and an electric washing machine. The floor of this area is covered with asphalt tile.

Underneath the dining room-kitchen wing is a nine foot cellar which contains the heating plant and the pump machinery for supplying water from the well for use in the house. The latest automatic stoker-fired anthracite hot air furnace is used. There is a winter air conditioner that continually circulates the air after it is heated and electrostatically cleaned and humidified. Underneath the rest of the house is crawl space. All Twindow Units and other PPG products were supplied and installed by the Wilkes-Barre Branch, which is located about 25 miles from Conyngham Valley.



An overall view of "Long Shadows" taken from the east showing the dining room-kitchen wing at left and the bedroom wing at far right. Behind the house can be seen the wooded mountain slope on which the house is located.



A view from the top of the main slope at the Boyne Mountain Ski Lodge. The town of Boyne Falls, Michigan can be seen in the background. The slope is about 2,000 feet in length and has a vertical drop of about 500 feet.

TWINDOW in the modern ski lodge



Superior insulation and anti-fogging properties of Twindow units make them ideally suited for glazing modern ski lodges

NOW in its third successful season, the Boyne Mountain Ski Lodge is rapidly becoming the Mecca for skiers from the lower peninsula of Michigan. The Lodge is located on U. S. Route 131 at Boyne Falls, Mich., which is just 17 miles south of Petoskey.

The three men chiefly responsible for the Boyne Mountain Ski Lodge are James Christianson, ex-Scout Executive in the Detroit Area Council; Everett Kircher, automobile dealer from Detroit; and John Norton, a

The roadside sign of the Boyne Mountain ski slopes. The new ski slopes are located on U. S. Route 131 and also on the main line of a major railroad so that the new slopes are easy to reach from all sections of the midwest.

consulting engineer from Traverse City, Mich. After much searching the Boyne Falls area was chosen because of its excellent terrain and also because it is on the main line of a railroad and hence accessible to skiing enthusiasts from all over the middle west.

Beside the main slope is the only chair lift operating in the middle west. This chair lift was acquired from the Dollar Mountain at Sun Valley. In its present location, along with three rope tows, it serves the ten slopes and trails which afford a varied skiing terrain for all types of skiing enthusiasts from the beginner to the expert.

The front of the Lodge faces the slope and is glazed with large Twindow units. These double glazed units are especially suited for use in ski lodges because they do not fog and a clear view of the skiing slopes is thus assured. All of the units used in the Lodge were supplied and installed by the Grand Rapids Branch of PPG. There are seven large Twindow units in the side of the Lodge that faces the ski slope plus an additional unit beside the fireplace.

Skiing at Boyne Mountain proved to be so popular that in its second year of operation a sleeping lodge was built. The new sleeping quarters are located to the right of the main ski lodge and have accommodations for 48 people. Here again PPG Twindow units with their superior insulation properties have been used to glaze the sleeping lodge.

As the Boyne Mountain slopes become more widely known additional runs and ski trails will be constructed. Increasing numbers of skiers from the midwest are discovering and enjoying the excellent facilities of the Boyne Mountain slopes. They now realize that the midwest has one of the best skiing centers in the country.



Twindow units have been used to glaze the new ski lodge at the Boyne Mountain slopes. Here, a view of slopes from interior of lodge. There is no fogging or frosting of glass because double glazing provides good insulation.



Boyne Mountain ski slope is the only skiing center in the midwest that has a chair lift. The lift has 42 chairs and is in operation every day that the slopes are open. Boyne Mountain has become so popular that in its second year of operation a sleeping lodge with room for 48 was built. Twindow units were used to glaze the lodge.

9



Expert instructors are available at the lodge to teach beginners the fine art of skiing. Seen here is school meeting place in front of the lodge. Pittsburgh Twindow units have been used to glaze the slope side of lodge.



GLASS in the modern bank

A more inviting view of the interior has been obtained by using large lights of plate glass in front of main office of Western Savings Fund Society Bank



A view from the interior of the bank looking toward one of the secondary entrances from the bank building lobby. The large lights of polished *Pittsburgh* plate glass are three-eighths inch thick and measure nine by 15 feet.



NOW in its 103 consecutive year of operation, The Western Savings Fund Society of Philadelphia, Pa., moved its main office to Broad and Chestnut Streets in Philadelphia. This is one of the busiest intersections in downtown Philadelphia with an estimated 200,000 people passing this point every day.

An existing 17-story building was purchased at this site by Western Savings and the original plan was to remove all but the lower eight stories. An alternative plan was to raze the entire building, retaining only the foundations, and construct an entirely new eight-story building. However, when cost estimates for these plans were compiled it was decided to retain and alter the original building.

Philadelphia architectural firms of Harbeson, Hough,

One of two main entrances to the banking room of Western Savings Fund Society's new home office. Throughout the building there are 31 spacious PPG Herculite doors. The main entrance doors are being equipped with PPG Pittcomatic door hinge which automatically opens doors by hydraulic system when the push bar is touched lightly.

Livingston and Larson with Willing, Sims and Talbutt as Associate Architects designed the new bank quarters. Entire street floor was rebuilt, retaining only the passenger elevators which were of recent installation. The main banking room is located at the corner of the property open to both Broad and to Chestnut Streets. Turner Construction Company was the General Contractor for the remodeling job.

The banking floor which covers more than 6400 square feet of floor space is completely air conditioned for the comfort of the customers. Entrance to this part of the bank can be made from either Chestnut or Broad Street with secondary entrances from the Broad Street Subway and from the lobby of the office building in which the bank is located.

The way that the architects decided to overcome the formal characteristic associated with banks was to use large areas of glass in both sides of the bank that face the street. On both the Broad and Chestnut Street front are large lights of PPG clear polished plate glass. All of these lights are three-eighths of an inch thick and range up to nine feet wide by 15 feet long. In the large lights of glass above the two main entrances are two four foot diameter clock faces. The sidewalks fronting the bank are heated by radiant coils that melt snow and ice in winter.

The two main entrances to the bank as well as the secondary entrances all have *Pittsburgh's* Herculite doors. Altogether, throughout the building, there are 31 large Herculite doors. The main set of doors to the bank are being converted to the recently announced Pittcomatic door hinge which automatically opens the heavy glass doors when the push bar is touched. All *Pittsburgh* products used in the building were supplied by PPG's Philadelphia Branch.



In this photograph are seen the two main entrances to the banking room. All the lights of clear polished *Pittsburgh* plate glass were supplied by PPG's Philadelphia Branch. Sidewalks fronting the bank are heated by radiant coils imbedded in concrete to melt the winter snow and ice. 11



↑ An overall general view of the banking room. The low banking counter permits customers to talk to tellers on a more friendly basis. A polished marble type terrazzo floor separated by bronze division strips follows modern building trend. Walls are of polished natural teak wood.

➔ One of the objectives of the architects when they designed the new Western Savings Fund banking room was to create a feeling of informality in the room. How well this has been done can be seen in picture which shows the side of the room facing Chestnut Street. Here customers meeting friends can wait in air conditioned comfort.





Seen is storage area at General Fireproofing Company's Youngstown plant, world's largest producer of metal desks.

Metal Furniture Manufacturer

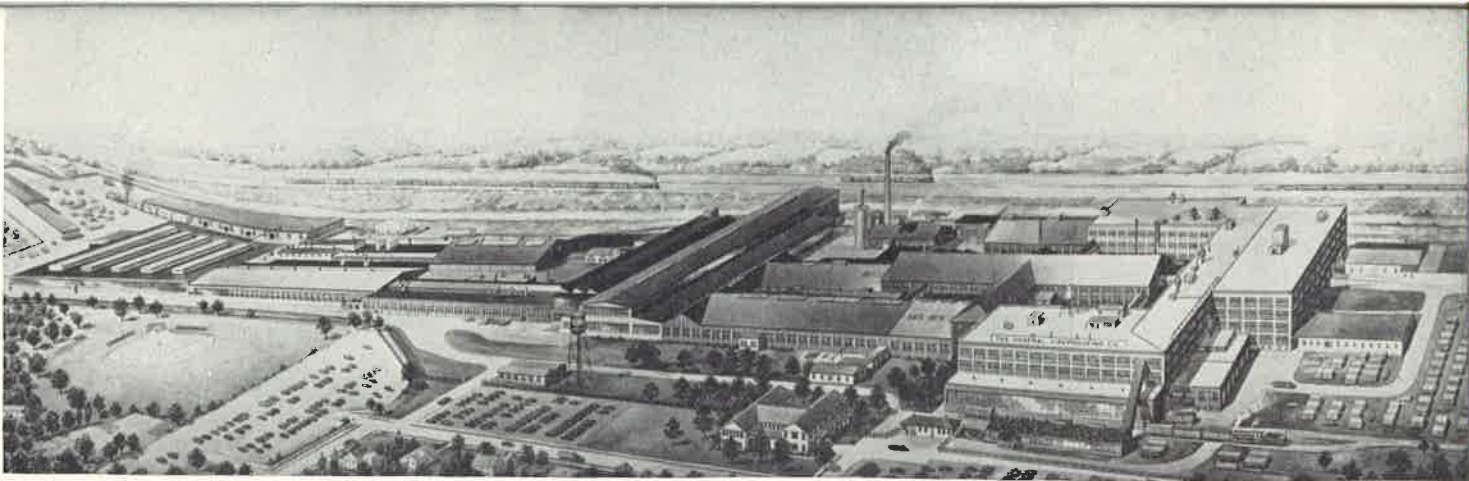
General Fireproofing Company, world's largest manufacturer of metal desks and office chairs, uses PPG paints and glass in their products



GENERAL Fireproofing Company's name is somewhat misleading and it doesn't reveal the company's eminence as a maker of metal office furniture. General Fireproofing Company of Youngstown, O. was founded in 1902 primarily to manufacture fireproof building materials. However, the company soon began to turn out custom built steel record keeping equipment for banks and public buildings. By 1910 General Fireproofing was revolutionizing filing equipment with its steel four-drawer filing cabinet and by 1912 it was making lightweight fireproof safes.

As GF branched out into manufacture of filing cabinets, shelving, desks, and chairs, it sold its fireproof building products division and also stopped making safes. Although it retained its original name, General Fireproofing now is noted as the largest maker of metal

Much of the metal furniture produced by GF is coated with protective layer of PPG paint. In this instance the GF office bookcase is finished with gray enamel and has been glazed with PPG's Pennvernon Glass in the window.



An aerial view of General Fireproofing Company's Youngstown plant which employs 3,000 and has more than 800,000 sq. feet of floor space for manufacturing.

desks and office chairs in the world and a leading builder of files, shelving, and other office furniture and supplies.

General Fireproofing Company's large plant in Youngstown covers 35 acres and has 800,000 square feet of floor space. The location is a very strategic one as GF uses more steel than any other material and Youngstown is one of the nation's steel centers. Then too, it is close to the important mass markets. In addition to the large quantities of steel used, much aluminum is used also in the production of office and institutional chairs.

Company products are not confined to those supplying office equipment needs. General Fireproofing manufactures a wide line of bookcases, shelving, tables, and telephone stands. Other products made are special steel equipment for banks, libraries, hospitals, and department stores. Furniture made by the company finds its way into streamlined trains, ocean luxury liners, and to airplane and railroad depots.

A good example of the latter is the new Erie Railroad station at Akron, O. In this modern station GF chairs and sofas are combined with Pittsburgh's Carrara glass walls, mirrors, Herculite doors and polished plate glass windows to provide bright, cheerful, restful surroundings to those who wait for trains.

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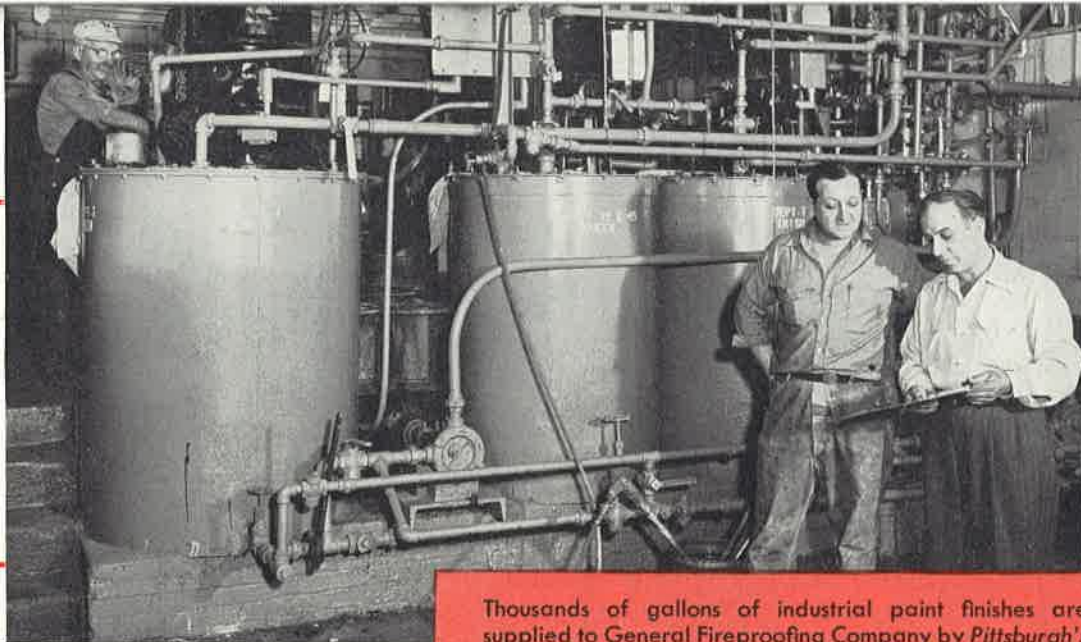
Although General Fireproofing uses more steel than any other material, it also produces a large number of aluminum chairs as well as bookcases, filing equipment, etc.

Institutional chairs made by GF come down conveyor line and in the background can be seen bases for secretarial chairs. Girls like General Fireproofing chairs because smooth surfaces of the chair edges prevent getting runners or otherwise damaging their hosiery.

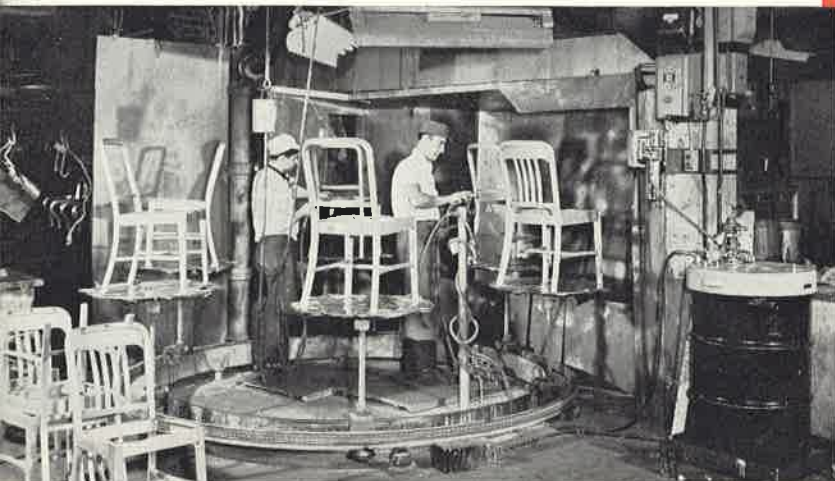


Metal Furniture Manufacturer

continued



Thousands of gallons of industrial paint finishes are supplied to General Fireproofing Company by Pittsburgh's Forbes Finishes Division in Cleveland, O. This is the paint shop at the General Fireproofing plant in Youngstown.



Bright aluminum surfaces of GF chairs also receive a spray coating of PPG clear synthetic enamel. Paint comes from drum at right and is sprayed on chairs as they move around circular conveyor at General Fireproofing plant.



After passing through a thorough degreasing treatment, metal parts for GF desks and filing cabinets move on an automatic conveyor line through this big dip tank which contains 4,000 gallons of high quality PPG Gray Enamel.



Pittsburgh's Pennvernon Window glass is installed in GF metal bookcase. PPG's Youngstown Branch supplies glass for use in bookcases as well as maintenance paints which help make General Fireproofing factory a remarkably clean, neat looking plant.



Furniture made by General Fireproofing unites with Carrara glass walls and polished plate glass made by Pittsburgh to give beauty to Erie Railroad depot in Akron, O.



Many of the finest trains in the world are equipped with chairs, sofas, desks, and other furnishings made by General Fireproofing Company. This is club car of Texas Eagle of Missouri Pacific and Texas and Pacific Railroad.

There are many other spots where General Fireproofing products are featured. For instance one of the glamour installations is the main dining room of the SS Panama of the Panama R. R. Steamship lines. Here are used wide aluminum chairs and circular tables made by GF.

Much of the furniture seen in the luxurious club cars of the nations leading railroads has been designed and built by the General Fireproofing Company. In the world famous Waldorf-Astoria hotel the main ballroom and banquet rooms all use GF institutional chairs.

Most women office employees are personally familiar with an important feature of the GF aluminum office chairs. Care has been taken in their manufacture to make certain that all chair surfaces are smooth and don't cause runs in the feminine hosiery. Most of these chairs have a coating of PPG clear enamel which protects the bright appearance of the polished metal.

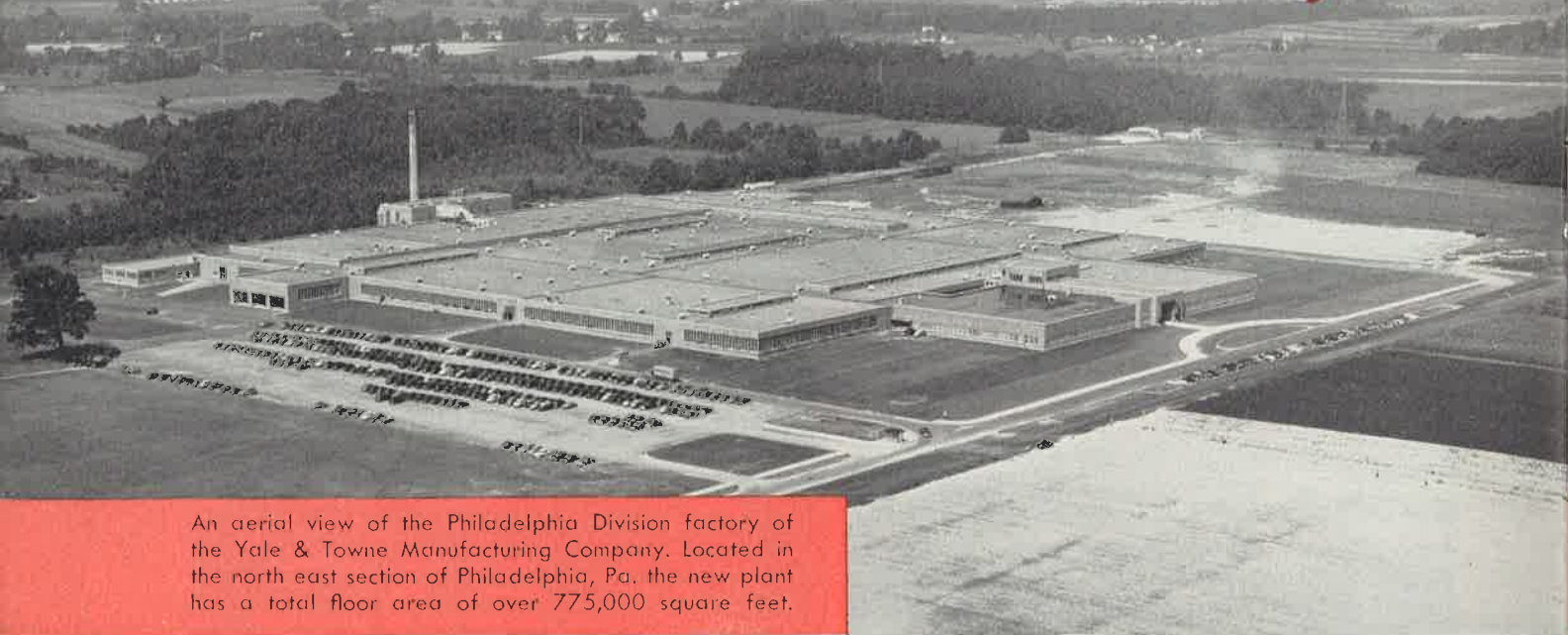
Many of the parts for General Fireproofing products are painted by running them on conveyor lines through large dip tanks containing hundreds of gallons of *Pittsburgh* gray enamel. Of course before parts go through the dip tanks they are thoroughly degreased so that the paint will adhere to the metal. After going through dip tanks on a conveyor line they go into an oven where they bake for 40 minutes at a temperature of about 350 degrees Fahrenheit.

Pittsburgh's Forbes Finishes Division has been supplying a sizeable part of General Fireproofing's paint requirements for several years. G. E. Bartholomew, Jr., of Forbes Division, has served as a consultant on paint purchases to General Fireproofing Company for 28 years. PPG maintenance paints and the Pennvernon Window Glass used in GF metal bookcases are supplied to General Fireproofing by *Pittsburgh's* Youngstown Branch.

Modern GF aluminum chairs are used in some of the most deluxe meeting places in the world. Here is main ballroom of New York City's famous Waldorf-Astoria Hotel, which is equipped with institutional chairs manufactured by General Fireproofing Company.



GLASS in the modern factory



An aerial view of the Philadelphia Division factory of the Yale & Towne Manufacturing Company. Located in the north east section of Philadelphia, Pa. the new plant has a total floor area of over 775,000 square feet.

New factory housing the Philadelphia Division of the Yale & Towne Manufacturing Company is glazed throughout with *Pittsburgh* glass



COVERING more than 775,000 square feet of floor area the recently built plant housing the Philadelphia Division of Yale and Towne Manufacturing Company is one of the most modern factories in America. The one story air conditioned plant manufactures materials handling equipment such as lift trucks, gasoline and battery powered fork trucks, hand and motor operated hoists, and a wide variety of industrial scales.

The Ballinger Company of Philadelphia acted as the architects and engineers for the project and the Turner Construction Company was the General Contractor. Working closely with both firms was James C. Morgan, General Manager of the Philadelphia Division of Yale & Towne at the time that the new plant was built.

Located in the extreme north east section of Philadelphia, the plant is situated on a 90 acre plot of ground. Such a large area made it possible to design the plant for an efficient one floor production line layout. Castings and other raw materials enter the plant by the private rail siding or by truck.

Seen in this photograph is the main entrance to the reception room and office area of the new plant. The front is glazed with clear polished *Pittsburgh* plate glass and the doors are PPG Herculite. All of the windows throughout plant are glazed with *Pittsburgh's* Pennvernion glass.



A section of the display room showing some of the equipment made by the Philadelphia Division of the Yale & Towne Manufacturing Company. The gasoline motor pictured at right is used in one of the industrial power trucks.



A view of another section of large display room which is located just across the hall from reception room. Display room has been glazed with clear *Pittsburgh* plate glass permitting a view of the display room from hallway.

These raw materials are placed in a storage area and are used as needed. From the storage area they progress to the various machining operations and are then combined with the finished "purchased" parts. All of the component parts are then assembled and the finished products are moved to the testing area.

All products are thoroughly tested and must meet standards as high as 50 percent above their guarantee before they are sent to the packing and shipping departments. Products in various stages of completion are moved through the plant by materials handling equipment made by the Yale & Towne Company. As a matter of fact more than 500,000 dollars worth of Yale & Towne hoists are used throughout the plant.

Design of the manufacturing part of the plant is roughly in the form of a square with a length of about 880 feet per side. In front of but connected to the production section of the plant is the general office area. Here are located the accounting, purchasing, engineering, sales and other departments. In this section is also a completely equipped plant hospital with a registered nurse on duty at all times. Walls of the hospital above the tile border have been painted an eye rest green shade with quality *Pittsburgh* paints.

In the general office, sales, accounting and engineering departments all walls have been styled according to the principles of Color Dynamics. In all, more than 1500

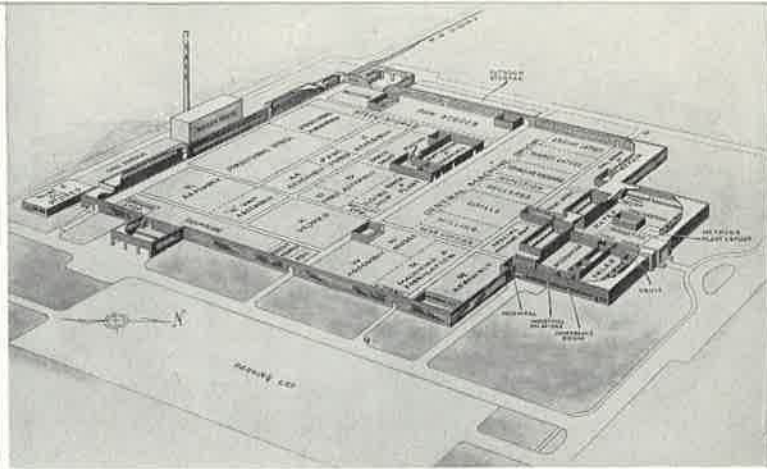
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One of the large industrial platform scales made and supplied to industry by the Philadelphia Division of the Yale & Towne Manufacturing Company. Girl shown in the picture is one of the more than 2,000 employees working in the Philadelphia Division. Products sold worldwide.



Every piece of equipment manufactured at the plant is carefully tested before it is shipped to customers. Here is seen the Lift King battery powered fork trucks on one of test slopes. Products are tested 50% above capacity.



One of the reasons for the high productivity of the new plant is the efficient one story production line layout. Many unnecessary movements of raw materials have been eliminated and the wide use of company products in the plant has helped to speed up all plant operations.

GLASS in the modern factory

continued from page 17

gallons of PPG Wallhide have been used to aid in making these areas pleasant places in which to work.

Lighting in the office areas as well as in the plant is fluorescent. In the offices it is recessed in an acoustical ceiling. In addition to the restful scheme of painting the office area is air conditioned also.

Unlike factories built during an earlier period, the new Yale & Towne plant was constructed on an entirely different principle. Executives of the company believe that: "production is material in motion and that efficient,



Seen in this picture is a section of the sales department in the office section of the plant. All the walls in this area have been painted with PPG Wallhide and have recessed fluorescent lighting in acoustical ceiling.

low cost production can be achieved only through an efficient materials handling system." As a consequence the first step in the construction of the new plant was to lay out on paper the position of the equipment and machinery so that they would operate in the most efficient manner. After this had been done the plant was then designed to house these theoretical production lines.

In addition to planning for today's production needs it was decided that space should be available in the new plant for an eventual increase in productive capacity of about 35 percent. At the same time the plant was to be flexible enough so that when demand for one of the products increased in relation to another that the plant layout could be shifted to accommodate this demand.

As an example of the increased efficiency achieved in the new plant one typical part made in the old factory had 22 operations and was moved 45 times for a total distance of 10,140 feet. Today because of the efficient layout of the new plant the same part travels only 3380 feet or a 67 percent saving. The fundamental soundness of the new method of designing and building the plant is immediately apparent.

To cut down hazards in the plant all service utilities such as water pipes, electric cables, etc. are attached to the roof of the building. There is no problem of having an electrical outlet unavailable where needed because there are ten miles of Buss and Trol-E-Duct installed throughout the plant. Electrical capacity of the plant is enough to supply the needs of about 7500 homes.

Exterior of the new plant is of red brick. To present an idea of how much material went into the building of the new plant here are some construction figures: 130 miles of electric wire, 4800 tons of structural steel,



A view of the completely equipped plant hospital. A registered nurse is on duty at all times during the day and night. The walls above the tile border are painted with pleasing eye rest green *Pittsburgh* Wallhide paint.

1,300,000 bricks (enough for 150 average size homes), 27,000 cubic yards of concrete (enough to pave a three lane highway 6.8 miles long), and 36,600 square feet of glass (enough to glaze 290 average size homes).

Throughout the entire plant all of the windows have been glazed with *Pittsburgh* Pennvernon window glass. In addition to this large amount of glass, the front entrance has been glazed with clear polished PPG plate glass and two spacious Herculite doors. On one of the walls in the large reception room are *Pittsburgh* copper backed mirrors which add to the apparent size of the room. Glass used in the building was supplied and glazed by the Philadelphia Branch of *Pittsburgh* Plate Glass Company.



One of the interesting applications of industrial trucks made by Yale & Towne is their use in hauling food containers around the factory for in-plant feeding. Here is seen unit used for employees of the Philadelphia plant.

News Front

PITTSBURGH CORNING PRODUCES FIFTY MILLIONTH GLASS BLOCK

Late in the summer of 1950, Pittsburgh Corning produced its fifty millionth glass block at the Port Allegany, Pa. plant. The first glass block made commercially by Pittsburgh Corning was a six inch Argus Parallel Flute pattern which came off the production lines on February 6, in the year 1938.

Since 1938 the available sizes and patterns of PC Glass Block have been increased until there now are sizes and styles for every specific need. Originally glass block was used in various buildings almost exclusively for decorative purposes. Today, glass blocks are used for utility as well as for decorative purposes. They are a hall mark of the modern building whether it be commercial, public, industrial, or residential.

The inherent advantages obtained when glass blocks have been installed are many. Because PC Glass Blocks are hollow they have high insulation value. Actually a typical PC Glass Block panel has better insulation properties than an eight inch masonry wall. Since they tend to keep heat out in summer and cold out in winter they are ideally suited for use in air conditioned buildings.

PC Glass Blocks are easy to clean and maintenance costs are extremely low because there is nothing to rot or rust in a glass block panel. They are easy to install.

The PC Decorative Glass Block line was soon supplemented by the PC Functional light-diffusing and light directing glass blocks.

These more recently developed functional patterns are divided into two main classes; light-diffusing and light-directing glass blocks. The light-diffusing pattern is used to diffuse and scatter light in all directions. The light-directing Glass Block, by special arrangement of the small prisms on the block surfaces, "bends" incoming light and directs it up to the ceiling of the room.

The light is then reflected downward from the ceiling and evenly lights all parts of the room. In effect PC Functional Glass Block panels create a natural indirect lighting system. Certain functional patterns have Pittsburgh Corning's exclusive Soft-Lite edge for use on sunny exposures. The Soft-Lite edge is a piece of opal glass fused into the block junction during manufacture to further diffuse incoming light.



Robert W. McKinley, PC Development Engineer, explains some of the features of PC Soft-Lite Prism B 55 Glass Blocks to Evelyn Heil, Sec. to J. P. Staples, Pittsburgh Corning General Mgr. The new functional "55" line of glass blocks produced by PC has found wide use in hospitals, schools, industrial and office buildings when temperature & humidity controls are needed.

CURVED WINDSHIELDS FOR AUTOCAR TRUCKS ARE PPG DUPLATE

A head-on view of the newly designed cab made by the Autocar Company. Following general styling of passenger cars the new cab is glazed with a curved Pittsburgh Duplate windshield which gives the driver much better lateral vision.



Following the trend started by passenger cars the new line of Autocar truck cabs now have curved windshields made of *Pittsburgh Duplate Safety Glass*. The new windshields have 56 percent more area than the older straight windshields. They are curved with the line of vision and maintain a distance of about 20 inches between the eyes of the driver and the glass.

Each half of the split windshield measures 30 and one half inches in width. From the center post out, the first 14 inches are approximately flat and the curve develops thereafter on a 20 inch radius. At the corner post the windshield has a height of 19 inches.

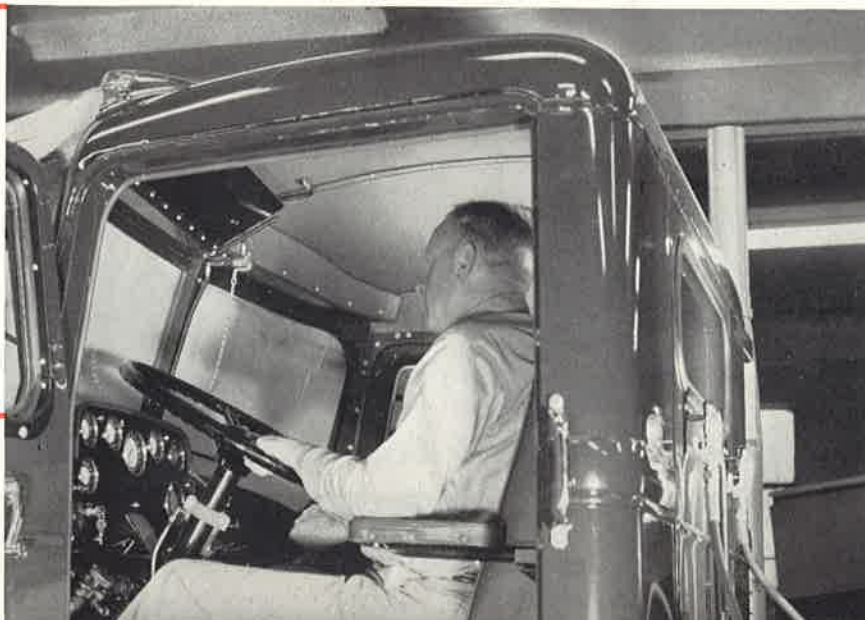
As a consequence of the new curvature the corner posts have been moved back out of the driver's direct line of vision. Now, by edging forward slightly, it is possible to see up the side streets through the front windshield. Both the windshield and the side lights of glass

in the cab have been set in rubber. This protects them from shock and provides a very effective seal against the weather.

Using the new full vision curved Duplate windshield necessitated the redesigning of the truck cab. The overall width of the cab has been increased by nine inches. In addition, the space between the driver's left shoulder and the side of the cab has been extended. Sitting directly behind the steering wheel there is now six inches between the driver's left hand and the door.

To overcome driver fatigue the operator can make different adjustments in the position of the seat. The front of the seat cushion can be raised or lowered, the entire seat can be moved forward or backward in steps of five-eighths of an inch for a total of five inches, and the entire seat frame can be raised one or two inches above the normal height of the seat.

In this photograph is seen an interior shot of the new truck cab manufactured by the Autocar Company that is glazed with a curved *Pittsburgh Duplate* windshield.



"YOU'VE GOT TO SHOW ME"

And you can show her...
with a Pittsburgh open-vision store front

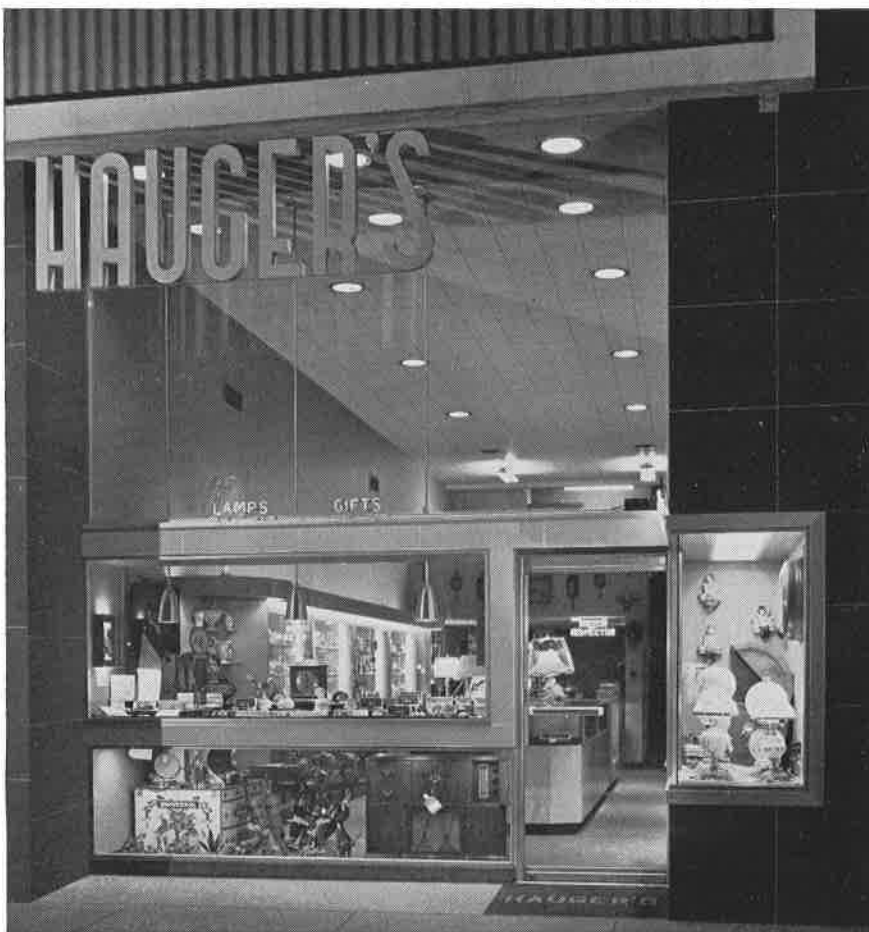


JEWELERS all over the country have found that it pays to "show your wares." And many of them have used a Pittsburgh open-vision store front to show *more* of their merchandise. An open-vision front of Pittsburgh Glass and Pittco Store Front Metal places the entire store on display... helps create a desire for displayed merchandise... often makes a sale before the customer enters. And even after the store is closed, an open-vision front goes on "selling."

Why not take advantage of the magnetism of an open-vision store front to increase *your* business? A modern, attractive store is an essential weapon in the battle of competition.

Remember this when you modernize your store: Modernization is an investment in the future of your business... not just an expense. So do a *complete* job—inside and out—for the greatest returns in increased business. Terms can be arranged if you desire them.

For illustrations and descriptions of actual Pittsburgh Glass and Pittco Store Front Metal installations, write for our free modernization booklet. Just return the coupon.



DISPLAY CREATES DESIRE. And with its open-vision front this jewelry store in Cumberland, Maryland, displays the entire store interior and the merchandise for sale to the best advantage. The expanse of Polished Plate Glass is held securely in place by durable Pittco De Luxe Metal. In addition to its protective

value, lustrous, clean-cut Pittco Metal also adds to the store's appearance. A Herculite Door and Door Frame Assembly complete the cheerful open-vision design. Piers are of colorful, easy-to-clean Carrara Structural Glass. Architect: S. Russ Minter, Cumberland, Md.

Store fronts
and Interiors
by Pittsburgh



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Without obligation on my part, please send me a FREE copy of your book on store modernization, "Modern Ways for Modern Days."

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3 Gifts of Glass



FRAMED MIRROR. When you give a lovely framed mirror for a gift, you're giving color, light, charm and spaciousness. For those are the qualities which a mirror lends to a room. And because there are so many different sizes, shapes and frame styles to choose from, you can easily find exactly the right mirror for any interior, period or modern.



FURNITURE TOPS. Here's a thoughtful gift, indeed . . . gleaming tops of Pittsburgh Plate Glass to protect fine furniture from scratches, tumbler rings, cigarette burns. They're as fashionable as they are practical . . . and available in mirrored as well as clear glass. Wonderful for husbands to give to wives . . . and vice versa.

that are always welcome!

DOOR MIRROR. Whether dressing up to impersonate Santa Claus, or just to face the everyday world, there's nothing like a full-length Plate Glass door mirror to reassure you that you look just so from head to toe. Door mirrors make perfect gifts . . . easy to order, easy to install, always welcome. But be sure they're really full length (at least 5½ feet tall) and made of genuine Plate Glass for perfect reflections.



FREE BOOKLET! Packed with suggestions for Christmas gifts of glass and mirrors. Illustrated in color. Ideas for old homes and new. Send the coupon.

TO BE SURE that you're getting genuine Pittsburgh Plate Glass when you buy, look for this Pittsburgh label.

WHERE TO BUY. Your department or furniture store or other local glass dealer can help you work out your plans for giving Christmas gifts of glass. (Or call your nearest Pittsburgh Plate Glass Company branch for advice.)



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TWINDOW picture windows

WHAT a marked difference the Twindow Unit makes. The Twindow Unit picture window, left gives a clear view while the lower surface temperature of the single pane, right has caused condensation and freezing. Incidentally, shortly after this striking picture was taken the single pane was replaced by another PPG Twindow Unit. The picture was taken in the home of John E. Hoff in Duluth, Minn. Architect for the modern home was H. S. Starin of Duluth and installation of the Twindow Unit was done by the F. I. Salter Company. Outside temperature at the time that this photograph was taken was 14 degrees below zero. Even at this extreme temperature there was no visible fogging or condensation on

the Twindow Unit. The Twindow is installed in the living room of the house and looks out toward the waters of Lake Superior. Twindow is the trade marked name of *Pittsburgh's* double glazed unit. It consists of two panes of Pittsburgh Plate Glass with hermetically sealed air space between the two panes. It is this air space that provides effective insulation minimizing downdrafts, cutting heat losses through windows, and reducing condensation. High insulation value of Twindow Units also makes them highly effective for use in homes and buildings that are air conditioned in summer. Twindow Units for this home were supplied by the Pittsburgh Plate Glass Company's Branch located in city of Duluth, Minn.